

		<h1 style="text-align: center;">AWARD/ MODIFICATION</h1>		3a. ISSUED BY: Office of Naval Research 875 N. Randolph Street Suite 1425 Arlington VA 22203-1995	
				3b. CFDA: 12.300	
4. AWARD NO.: N00014-17-1-2894		1. INSTRUMENT TYPE: Grant Award		3c. DUNS NUMBER: 003403953	
8. ACTIVITY/AGENCY PROPOSAL NO.: GRANT12395157		2. AUTHORITY: 10 USC 2358 and 31 USC 6304, as amended		7. PR NO.: 1000007915	
5. MODIFICATION NO.:		6. MODIFICATION TYPE: NEW		12. PROGRAM TYPE: ONR	
9. RECIPIENT PROPOSAL NO.:		10. PROPOSAL DATE: 05012017		11. ACTIVITY TYPE: R&D	
13. ISSUED TO 13a. ADDRESS: PENNSYLVANIA STATE UNIVERSITY, THE PENN STATE 201 OLD MAIN UNIVERSITY PARK PA 16802-1505 UNITED STATES OF AMERICA		13b. CAGE: 7A720		13c. ED/EFT NUMBER: N/A	
13d. BUSINESS OFFICE CONTACT: Tracy Ray		14. REMITTANCE ADDRESS (IF DIFFERENT FROM BLOCK 13): Same as Block # 13			
13e. TELEPHONE NUMBER: 814-863-8835					
15. RESEARCH TITLE AND/OR DESCRIPTION OF PROJECT AND/OR PROPOSAL TITLE: A New Direction for Software Reverse Engineering and Binary Code Retrofitting					
16. FUNDING		ACTIVITY/AGENCY SHARE		17. CURRENT FUNDING PERIOD	
PREVIOUSLY OBLIGATED:				N/A THROUGH N/A	
OBLIGATED BY THIS ACTION:				18. PERIOD OF PERFORMANCE	
TOTAL OBLIGATED ON AWARD:				09/30/2017 THROUGH 09/30/2022	
FUTURE FUNDING:					
GRANT TOTAL:					
19. ACCOUNTING AND APPROPRIATION DATA: See Attached Financial Accounting Data Sheet(s)					
20a. PRINCIPAL INVESTIGATOR/RECIPIENT TECHNICAL REPRESENTATIVE: Dinghao Wu		21. TECHNICAL REPRESENTATIVE 21a. NAME: RYAN CRAVEN		21b. CODE: 311	
		21c. ADDRESS: MATH COMPUTERS & INFO RESEARCH DIV 875 N. Randolph Street Arlington VA 22203-1995			
20b. TELEPHONE NUMBER: 814-867-3612		20c. EMAIL ADDRESS: dww@ist.psu.edu		21d. TELEPHONE NUMBER:	
				21e. EMAIL ADDRESS: RYAN.CRAVEN@NAVY.MIL	
22. AWARDDING OFFICE CONTACT 22a. NAME: ELIZABETH FORD		22b. CODE: BD255		23a. ADMINISTRATIVE OFFICE:	
22c. ADDRESS: Office of Naval Research 875 N. Randolph Street Suite 1425 Arlington VA 22203-1995				23b. CODE: N62880	
22d. TELEPHONE NUMBER: 703-696-2576		22e. EMAIL ADDRESS: ELIZABETH.FORD@NAVY.MIL		23a. ADMINISTRATIVE OFFICE: ONR REG Office Chicago Telephone: (312) 886-5423 230 South Dearborn CHICAGO IL 60604-1595	
24. SUBMIT PAYMENT REQUEST TO: Same as block 23a		25a. PAYING OFFICE: DFAS-CO/NORTH ENTITLEMENT OPERATIONS HQ0337 PO Box 182266 COLUMBUS OH 43128		26a. PATENT OFFICE: Office of Naval Research ATTN: ONR BDCC One Liberty Center 875 North Randolph Street, Suite 1425 Arlington, VA 22203-1995	
		25b. CODE: HQ0337		26b. CODE: N00014	

AWARD NO. N00014-17-1-2894		AWARD/MODIFICATION		MODIFICATION NO.	
27. SPECIAL INSTRUCTIONS: See Special Requirements on Page 5					
28. DELEGATIONS: The administration duties listed below have been delegated to the administrative office (block 23a). Upon request the awarding office contact (block 22) will make their full text available. Please direct questions to the contacts @: http://www.onr.navy.mil/Contracts-Grants/Regional-Contacts.aspx					
Full Delegation					
29. TERMS AND CONDITIONS: The following terms and conditions are incorporated herein by reference with the same force and effect as if they were given in full text. Upon request the awarding office contact named in block 22 will make their full text available, or they can be found at the specified URL.					
DOCUMENT		URL			
The following documents may be found at : http://www.onr.navy.mil/Contracts-Grants/submit-proposal/grants-proposal/grants-terms-conditions.aspx DOD RESEARCH AND DEVELOPMENT GENERAL TERMS AND CONDITIONS (JULY 2016) UAAC ACCEPTANCE C (NOV 2003) UAWA AWARD A (NOV 2003) STANDARD TERMS/CONDITIONS FOR RESEARCH GRANTS (AGENCY SPECIFIC) (FEB 2015)					
30. OPTIONS	OPTION NO.	AMOUNT		PERIOD	
	(1)				
	(2)				
	(3)				
	(4)				
31. REPORTS: The following reports must be submitted to the indicated addressees, in the indicated quantities, within 90 days following the expiration or termination of the project. Final Technical Reports must have a SF298, Report Documentation Page, accompanying them. Unless otherwise stated in the award/modification, complete Block 12a of the SF298 as follows: "Approved for Public Release; distribution is Unlimited".					
ADDRESSEE		REPORT TYPE		COPIES	
See block #21		Final Technical Report with SF298 Performance /Technical Report (As Required) with SF298		1 1	
See block #23a		Report of Inventions and Subcontracts - DD 882 Final Technical Report transmittal Letter only Performance /Technical Report (As Required) Final Federal Financial Status Report - SF425 - Including Line Item 11		1 1 1 1	
Defense Technical Information Center 8725 John J Kingman Road Ste 0944 Fort Belvoir, VA 22060-6218		Final Technical Report with SF298 Performance /Technical Report (As Required) with SF298		1 1	
See block #26a		Report of Inventions and Subcontracts - DD 882		1	
Naval Research Laboratory ATTN: CODE 5596 4555 Overlook Avenue SW Washington, DC 20375-5320		Final Technical Report Performance /Technical Report (As Required) with SF298		1 1	
32. FOR THE RECIPIENT:			33. FOR THE UNITED STATES OF AMERICA		
32a. SIGNATURE OF PERSON AUTHORIZED TO SIGN			33a. SIGNATURE OF AWARDOFFICER Digitally signed by ELIZABETH FORD 1057503684 Dated: 2017.08.10 13:52:55 EST		
32b. NAME AND TITLE OF SIGNER		32c. DATE SIGNED	33b. NAME AND TITLE OF AWARD OFFICER ELIZABETH FORD		33c. DATE SIGNED 08/10/2017

FINANCIAL ACCOUNTING DATA SHEET- NAVY

1 CONTRACT NUMBER (CRITICAL) N00014-17-1-2894			2 SPIN (CRITICAL)		3 MOD (CRITICAL)			4 PR NUMBER 1000007915							
CLINISLIN	6. LINE OF ACCOUNTING												7. AMOUNT (CRITICAL)	NAVY INTERNAL USE ONLY REF DOC/ACRN	
	A ACRN (CRITICAL)	B APPROPRIATION (CRITICAL)	C SUBHEAD (CRITICAL)	D OBJ CLA	E PARM	F RFM	G SA	H AAA (CRITICAL)	I IT	J PM	K COST CODE				
											PROJ UNIT	MCC			PDI &SUF
	AA	1771319	W2DB	410	00	014	0	050120	2D	000000	000020	008	871	\$9,206.00	
PAGE TOTAL														\$9,206.00	
GRAND TOTAL														\$9,206.00	
PREPARED/AUTHORIZED BY						COMPTROLLER APPROVAL FOR FISCAL DATA AND SIGNATURE									
DATE						BY _____ for COMPTROLLER, ONR CONTRACT REVIEWED									
						DATE									

FINANCIAL ACCOUNTING DATA SHEET-NON-NAVY DoD ACTIVITIES

1 CONTRACT NUMBER (CRITICAL) N00014-17-1-2894		2 SPIIN (CRITICAL)		3 MOD (CRITICAL)		4 PR NUMBER 1000007915		
5 CLIN/SLIN	6 ACRN (CRITICAL)	7 ACCOUNTING CITATION				8 AMOUNT (CRITICAL)		NAVY INTERNAL LISE ONLY REF DOCIACRN
						PAGE TOTAL		
						GRAND TOTAL		
PREPARED/AUTHORIZED BY					COMPTROLLER APPROVAL FOR FISCAL DATA AND SIGNATURE			
DATE					BY _____for COMPTROLLER,ONR CONTRACT REVIEWED			

AWARD NO. N00014-17-1-2894	SPECIAL REQUIREMENTS	MODIFICATION NO.	
<p>The Following payment instructions are hereby provided:</p> <p>Payment Office:</p> <p>The payment office shall make payment in sequential ACRN order within the award, exhausting all funds in the previous ACRN before paying from the next ACRN using the following sequential order: alpha/alpha; alpha/numeric; numeric/alpha; and numeric/numeric ACRN sequence.</p> <p>..</p> <p>Grantee:</p> <p>Payment guides are available on the ONR website at the following link: http://www.onr.navy.mil/Contracts-Grants/manage-grant/grants-payment/electronic-payment.aspx</p>			